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**From:** Sikes, Monica [monica\_sikes@fws.gov]  
**Sent:** 11/6/2019 8:01:24 PM  
**To:** Schaub, Mike [Schaub.Mike@epa.gov]  
**CC:** Brigitte Firmin [brigitte\_firmin@fws.gov]; Trahan, Amy [amy\_trahan@fws.gov]  
**Subject:** Re: [EXTERNAL] heelsplitter study by Powell

Mike, I do not have a hard copy of the thesis. I scanned the digital drives for it but haven't had luck yet. I can email Jeff Powell and ask about it if this is what you were thinking of. Just let me know. Thanks!

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**Monica Sikes**  
Fish and Wildlife Biologist  
U.S. Fish & Wildlife Service  
Louisiana Ecological Services  
**Mississippi-Basin Region**  
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"I have not failed. I have just found 10,000 things that do not work." Thomas Edison

On Wed, Nov 6, 2019 at 1:58 PM Sikes, Monica <[monica\\_sikes@fws.gov](mailto:monica_sikes@fws.gov)> wrote:  
<https://www.sciencebase.gov/catalog/item/57e2b6bde4b090825004599f>

I wonder if I was citing this summary at the above link. I can't find a hardcopy, but it looks like this research was accomplished through an SSP proposal that resulted in a thesis. Brigitte Firmin is copied here for an FYI because I'm not sure if you two have had an opportunity to meet. Brigitte has replace me as the ESA Section 7 team lead and will assume the roles I previously had. After you take a look, see if you think this was what you are thinking of....ugh my memory..... I've copied Amy too in case she remembers more. She will still be working on the Section 7 consultation team with Brigitte. Anyway, I hope this helps!

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**Monica Sikes**  
Fish and Wildlife Biologist  
U.S. Fish & Wildlife Service  
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On Tue, Nov 5, 2019 at 9:39 AM Schaub, Mike <[Schaub.Mike@epa.gov](mailto:Schaub.Mike@epa.gov)> wrote:

Hi Monica,

I hope this email finds you well. Back in May, we had a conference call with you and Amy Trahan regarding DO criteria in the eastern LMRAP ecoregion. One thing you mentioned at that time was a study by Jeff Powell that made the following conclusions (based on our notes from the call):

- Alabama study (Jeff Powell) indicated that DO levels below 4mg/L may not be adequate for fish species that serve as hosts for molluscan larvae (glochidia).
- Host species impacts may affect ability of glochidia to attach/drop off in favorable habitat or at favorable times (due to fish avoidance of low DO areas).

Would you happen to have the study by Jeff Powell that indicated these findings?

Many thanks!

**Mike Schaub**  
**Water Quality Standards Program**  
**Water Division**  
**US EPA Region 6-Dallas**  
**214-665-7314**